

[illegible]

integrity
Ibn al-Haytham
integrity

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Mathematical Principles of Natural Philosophy
Philosophiae Naturalis Principia Mathematica
I do not define time, space, place and motion, as being well known to all
Nam tempus, spatium, locum et motum ut omnibus notissima non definio. [2]

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AlphaGo Zero □□□□□□□

```

19x19
game
game
game
game

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[illegible][illegible]

1) AlphaGo Zero superhuman

[illegible]

superhuman

2) Chinese room argument

3) The Selfish Gene (The Immortal Gene)

[illegible]

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[illegible][illegible][illegible]

word-embedding vector space knowledge graph

[illegible]

[illegible][illegible]

QUESTION

ANSWER

SOLUTION

[illegible][illegible]

“ ”

Technological Singularity AlphaGo Zero superhuman Quantum Supremacy

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[illegible]

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[illegible][illegible]

[illegible][illegible]

BRAIN Initiative

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AlphaGo Zero Superhuman Quantum Supremacy

Nature









AlphaGo Zero 在 Nature 上超越 superhuman 的论文 [3] 中 AlphaGo 在 190 万场自我对弈中击败了 100 万场自我对弈的 game。AlphaGo Zero 在 100 万场自我对弈中击败了 100 万场自我对弈的 game。



Quantum game Nature Quantum Supremacy [4]

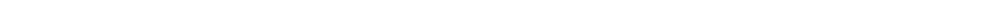
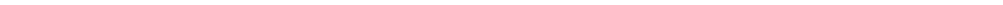
Shor's algorithm

Quantum Supremacy

qubit NISQnoisy
intermediate-scale quantum

Quantum Supremacy  Sycamore  NISQ  noise 
 noise 
 noise 

 Sycamore
  AlphaGo Zero

Quantum Supremacy  noise 

Quantum Supremacy NISQ John Preskill [5]

Quantum Supremacy

Supremacy 量子優越性 Quantum Supremacy Nature 量子優越性

Quantum Supremacy 量子最適化 machine learning 量子機械学習
NISQ noisy Sycamore 量子NISQノイズシカモア

noisy 量子ノイズ 量子NISQノイズシカモア

量子NISQノイズシカモア

量子NISQノイズシカモア Quantum Supremacy 量子優越性

Nature Superhuman Quantum Supremacy 量子優越性

量子NISQノイズシカモア

tensor 量子テンソル

AlphaGo Zero Superhuman Quantum Supremacy 量子優越性 “量子” 量子優越性

量子NISQノイズシカモア

量子NISQノイズシカモア

量子NISQノイズシカモア “量子” “量子” 量子優越性

量子NISQノイズシカモア

Académie française 量子アカデミー

量子NISQノイズシカモア

量子NISQノイズシカモア

量子NISQノイズシカモア

量子NISQノイズシカモア

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